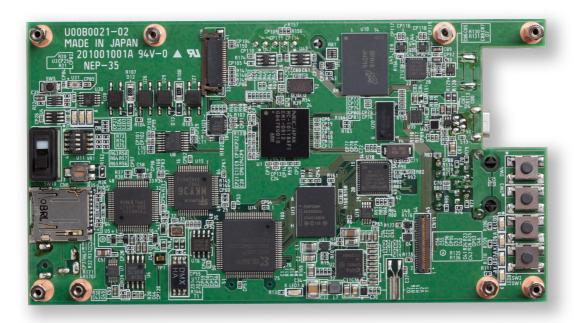




T-Engine Reference Board (U00B0021-02-CPU)





in full-scale

- Reference Board Certified by T-Engine Forum as Target Board for T-Kernel 2.0.
- Powerful CPU (ARM11 Core 500MHz).
- Various I/O Interfaces such as LAN, USB 2.0, Serial, GPIO, microSD.

Standard Price (Tax not included) 49,800yen



■ Features of "T-Engine Reference Board"

- · The reference board certified by T-Engine Forum. T-Kernel 2.0 provided by T-Engine forum as an open source software runs on this board with no change.
- · This board can be used for an evaluation of T-Kernel 2.0 itself and an evaluation or a development of embedded devices with T-Kernel 2.0(*1).
- · This board features various I/O devices such as LAN. USB 2.0, UART(Serial), GPIO, microSD card, eMMC, sound, HLS(High-speed Link System), chip LED, PUSH switch, illuminance sensor, temperature sensor.
- · Environmentally-friendly RoHS compliant product.
- (*1) The software including T-Kernel 2.0, T-Monitor, device drivers, and development environment are not provided with this product. Please download the software at T-Engine Forum's website by yourself and use them at your own risk, according to the software license agreement written by T-Engine Forum. We don't accept your technical questions about these software provided by T-Engine Forum







Product Specification

Hardware specification

CPU board

CPO board	
CPU	Renesas Electronics EMMA Mobile1-D (ARM11 Core,500MHz)
Flash ROM	32MB (NOR Flash)
RAM	64MB (CPU built-in)
eMMC	4GB
JTAG-ICE I/F	for Kyoto Microcomputer Co., Ltd.'s PARTNER-Jet
Power supply	DC5V±5%, MAX 2A (AC adapter is sold separately.)
Power jack	M04-730A0 (Marushin electric mfg. Co., Ltd.) Adapted plug: Ø1.7mm DS plug (external diameter: Ø4mm) EIAJ RC5320A Type2 Polarity: center[+]
Dimensions	CPU board: 137mm×75mm (not including protrusions)
RoHS	Compliant
I/O Interfaces	
microSD slot	1 slot
LAN	10/100BASE-T, RJ-45 connector
USB-OTG(*1)	supporting USB 2,0, mini-AB connector
USB-UART	mini-B connector
Serial ^(*2) ×2	RS-232 or CMOS level shift
Insulated I/O(*2)×4 bits	insulated GPIO by photo coupler
Sound(*2)	Microphone-in, Speaker-out
HLS(*2)	High-speed Link System
Others	Chip LED×4, PUSH Switch×4, illuminance sensor, temperature sensor, camera module(optional)

- (*1) You need USB host cable with USB mini-A connector for connecting USB devices such as mouse, keyboard, USB mass storage. The software including device drivers are not attached.
- (*2) Box-type substrate connectors on CPU board are used (e.g. JST's B3B-PH-SM4-TB). Connectors such as D-SUB are not attached

Reference Books and Related Information

- T-Kernel Standard Handbook, Ken Sakamura (Ed.), 3800yen
- * English documents are included as PDF files on CD-ROM
- T-Kernel Kumikomi Programing Kyokasho (A Practical Guide to T-Kernel Embedded Programing), Ken Sakamura (Ed.), 4200yen.
- Jissen TRON Kumikomi Programming(A Practical Guide to T-Kernel Embedded Programming for beginners), Ken Sakamura(Ed.), 3200yen.
- TRONWARE Vol.1-132 (TRON bimonthly magazine, scheduled to be continued), 1200ven (ordinary issue).
- * The above books are published by Personal Media Corporation in Japanese. Tax is not included.
- T-Kernel Kumikomi Programing Kyokasho(E-book for iPad), Ken Sakamura(Ed.).
- Jissen TRON Kumikomi Programming (E-book for iPad), Ken Sakamura (Ed.).
- * The above e-books are available at App Store. These e-books are written in Japanese.

T-Engine Forum http://www.t-engine.org/

Personal Media Corporation (T-Engine Solution Website) http://www.t-engine4u.com/en/

PMC International Retail Site

http://www.personal-media.co.jp/retail/

Personal Media Corporation Koizumi Bldg. 1-29-1 Nishi-Gotanda, Shinagawa-ku, Tokyo 141-0031 Japan Tel: +81-3-5759-8305 / Fax: +81-3-5759-8306 / E-mail:te-sales@personal-media.co.jp / http://www.personal-media.co.jp/

- ■TRON is an abbreviation of "The Real-time Operating System Nucleus".
- ■TRON, T-Engine, µT-Engine, T-Monitor, and T-Kernel are specified terms for computers, and are not product names